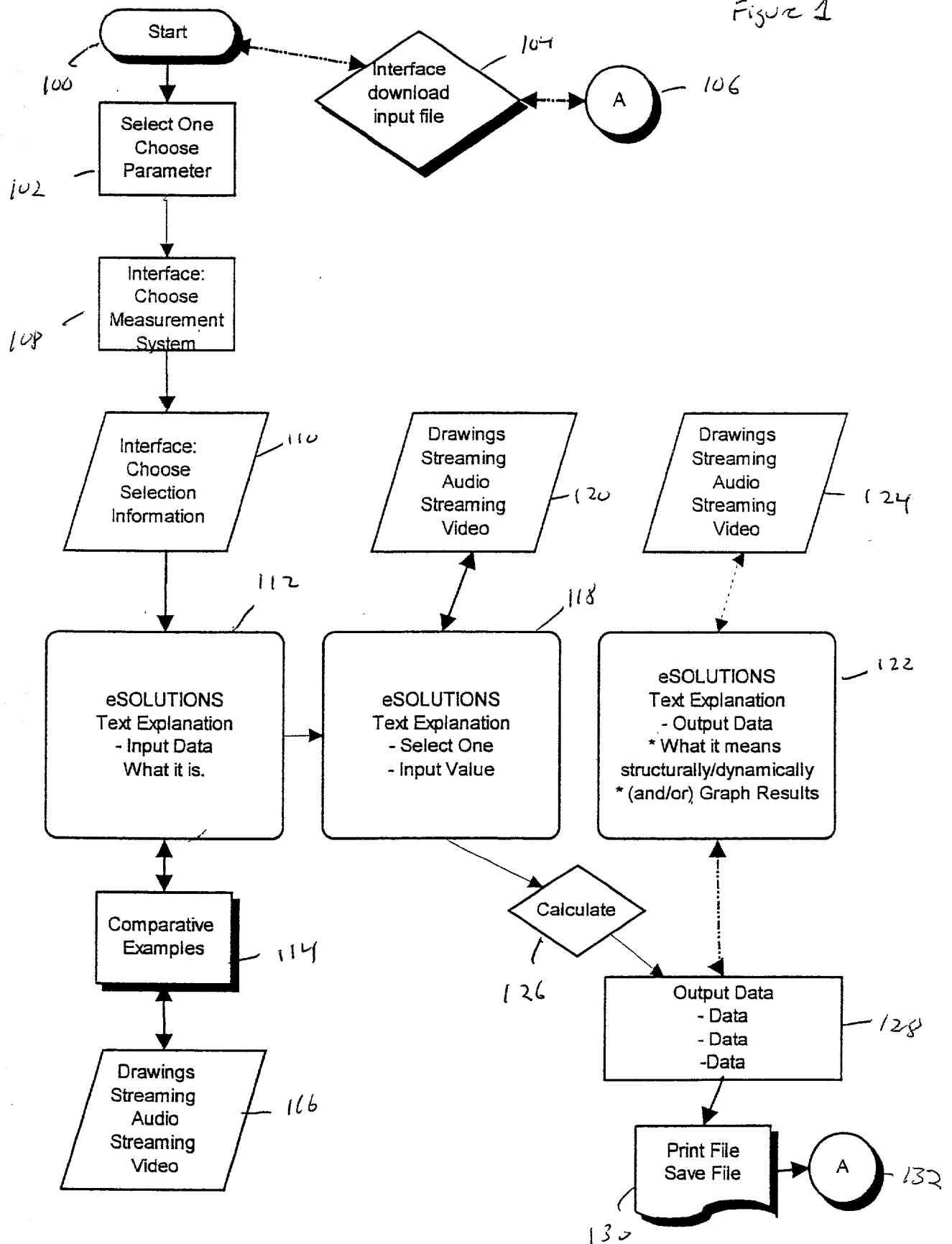
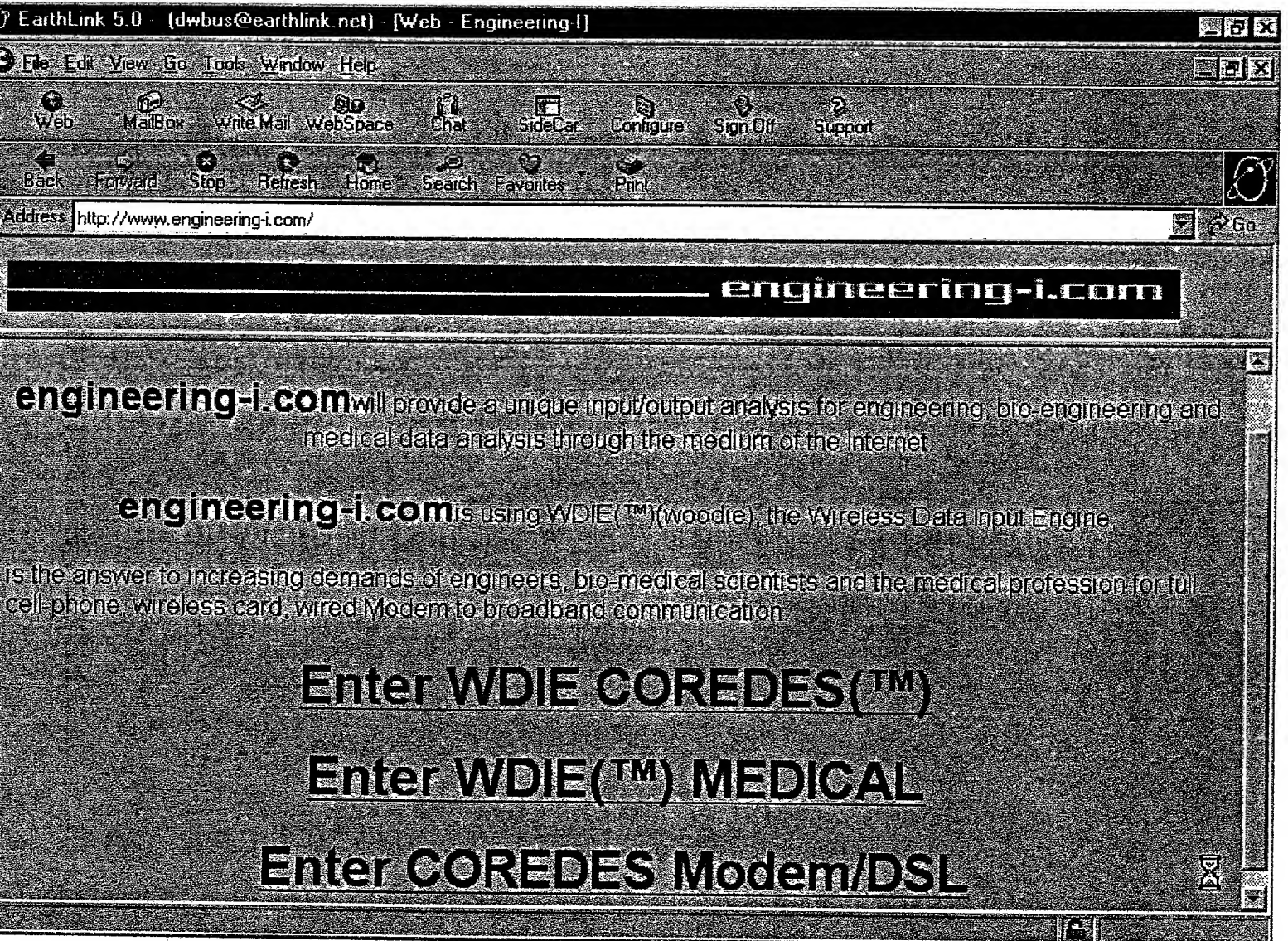
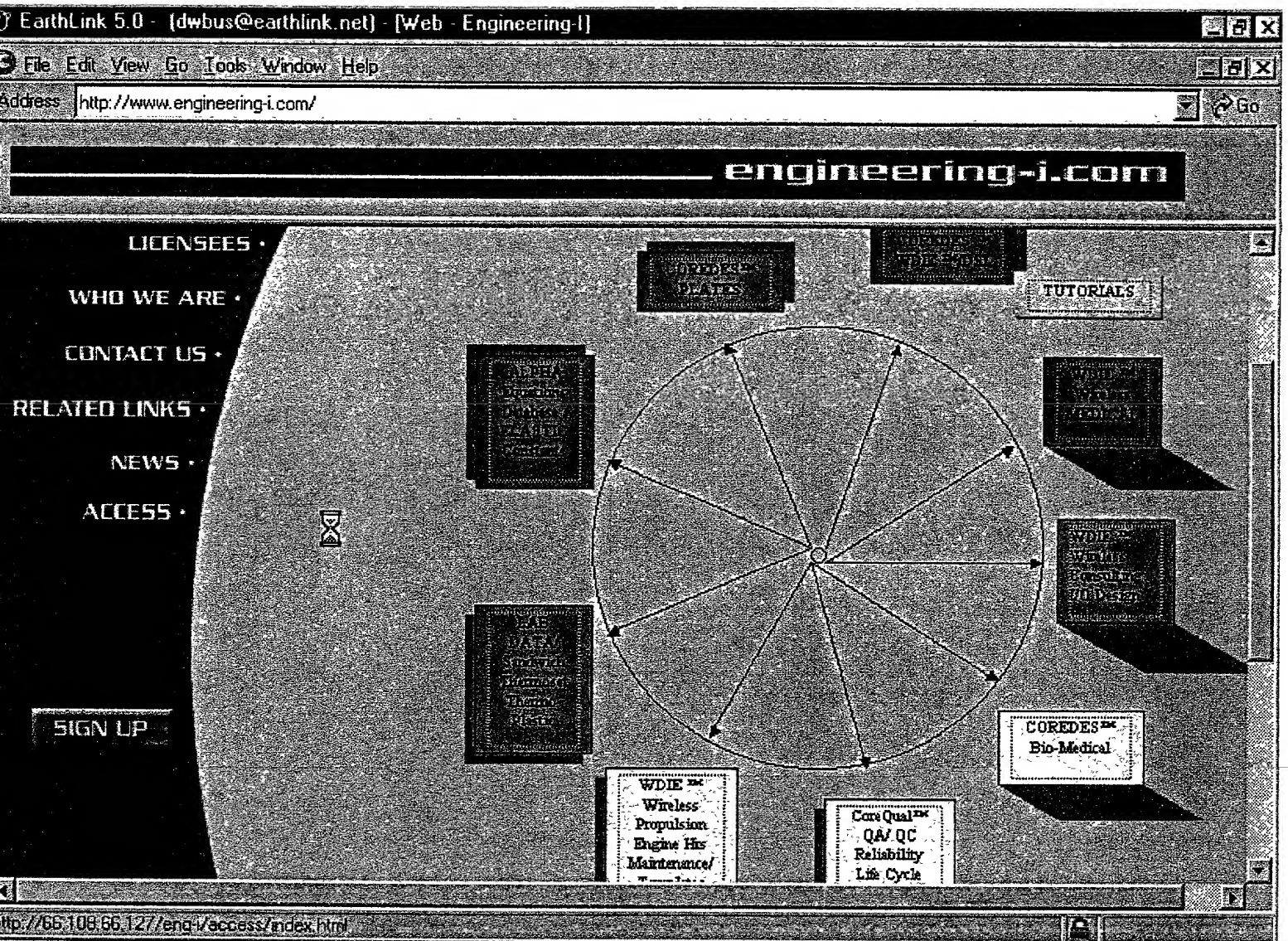


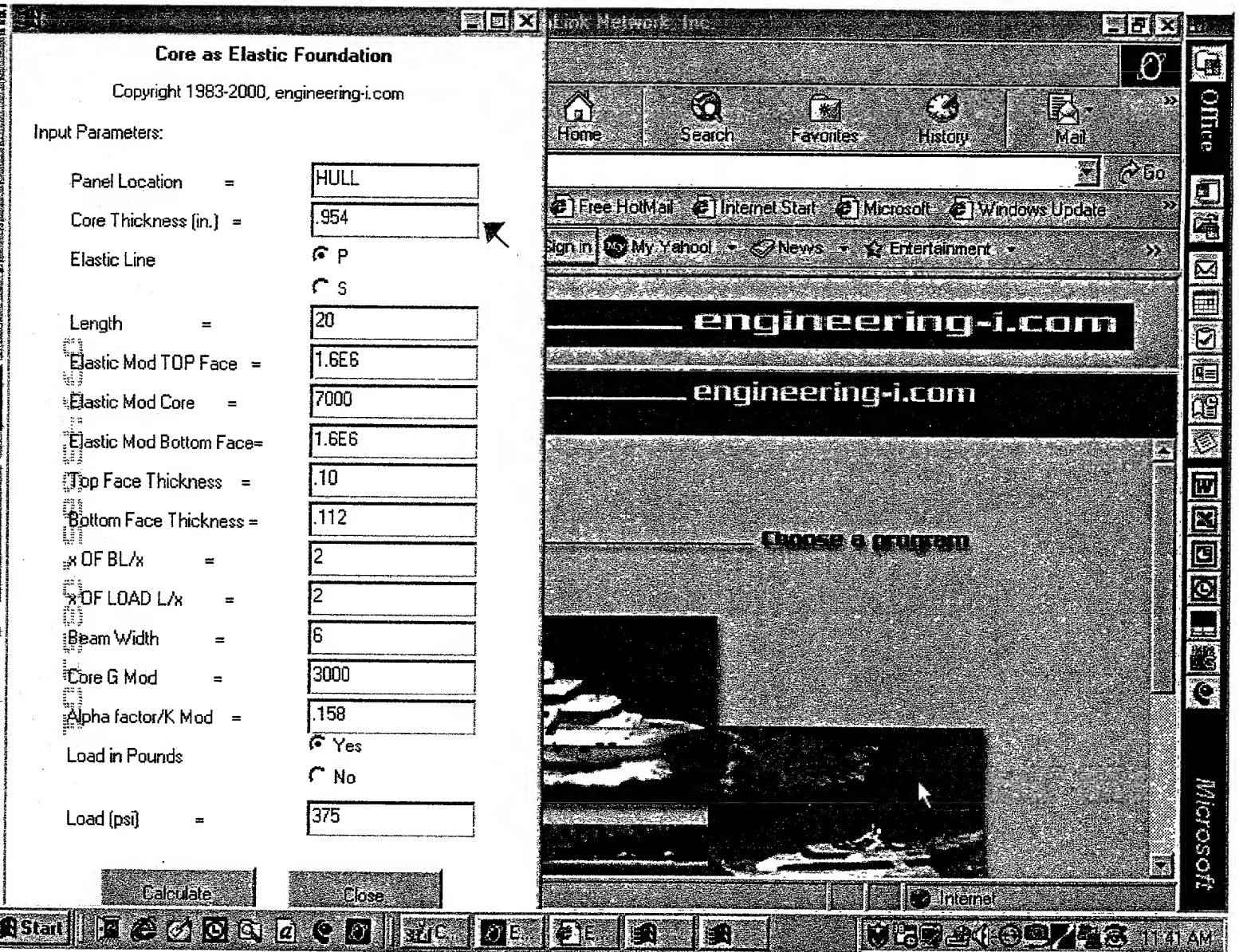
Figure 1











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Planboat
Sailboat
PL Moment
Elas Fdn
Elas Lim1
Elas Lim2
Abs Sand
Single Skin
Programs
Home

SOLUTIONS

- Panel location
- Core Thickness**
- Elastic Line
- Length
- Elastic MOD Top Face
- Elastic MOD Core
- Elastic MOD Bott Face
- Top Face Thickness
- Bott Face Thickness
- x of BL/x
- x of LOAD/x

Core Thickness

Measurement system Input value

English

CALCULATE

OUTPUT DATA

Top Skin Compressive Stress =
Bottom Skin Tensile Stress =
Core Shear Stress =
Beam Deflection =

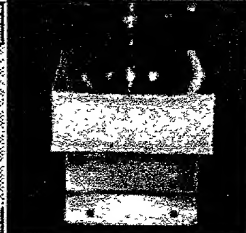


FIG. 7

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e SOLUTIONS

Input values for each parameter:
* Determine sandwich materials
* Choose dimensions from plan
* Determine Alpha from Database
* Determine EMod. from Lab Data
Press CALCULATE - Output Table

Select One
Core Thickness

Measurement system
English

Input value

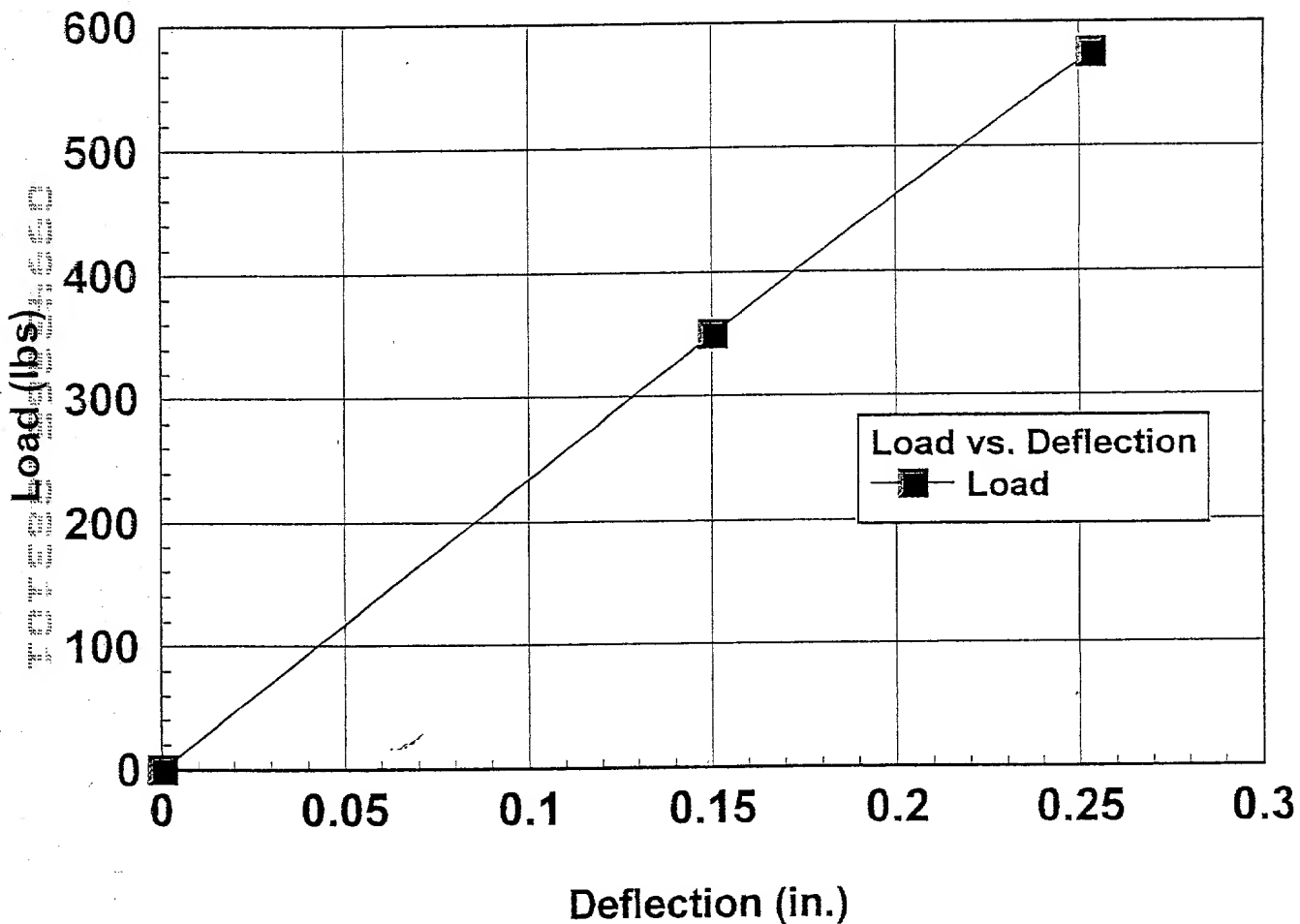
CALCULATE

OUTPUT DATA

Top Skin Compressive Stress =
Bottom Skin Tensile Stress =
Core Shear Stress =
Beam Deflection =

Fig. 8

Graph Load vs. Deflection Elastic Curve for the Designed Materials



Note: When compressive stress is plotted, the values for the elastic limits can be drawn on this curve.

FIG. 9

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COLLECTION

Panel location
Core Thickness
Elastic Line
Length
Elastic MOD Top Face
Elastic MOD Core
Elastic MOD Bott Face
Top Face Thickness
Bott Face Thickness
x of BL/x
x of LOAD/x
Core Thickness

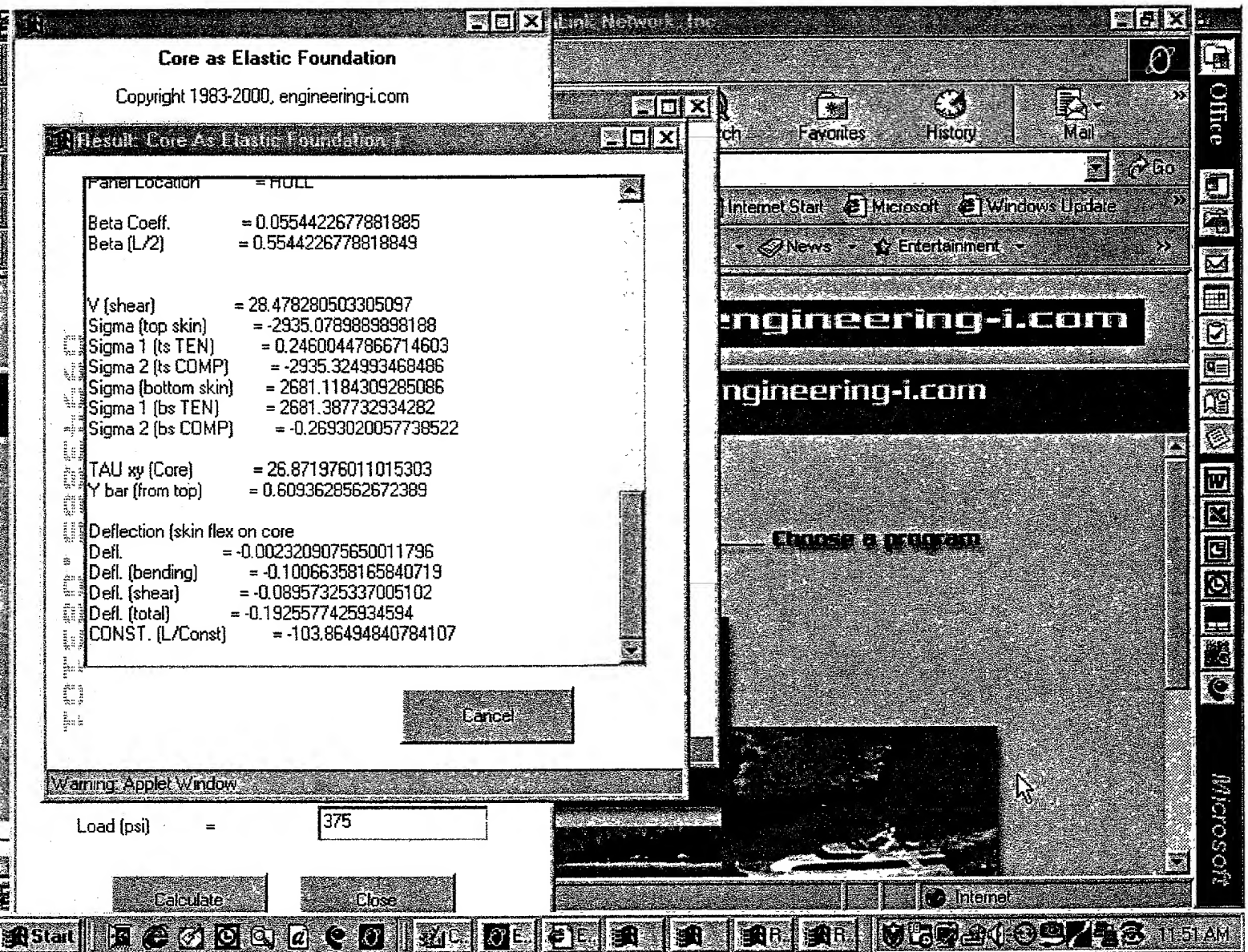
Measurement system Input value

English 1.00"

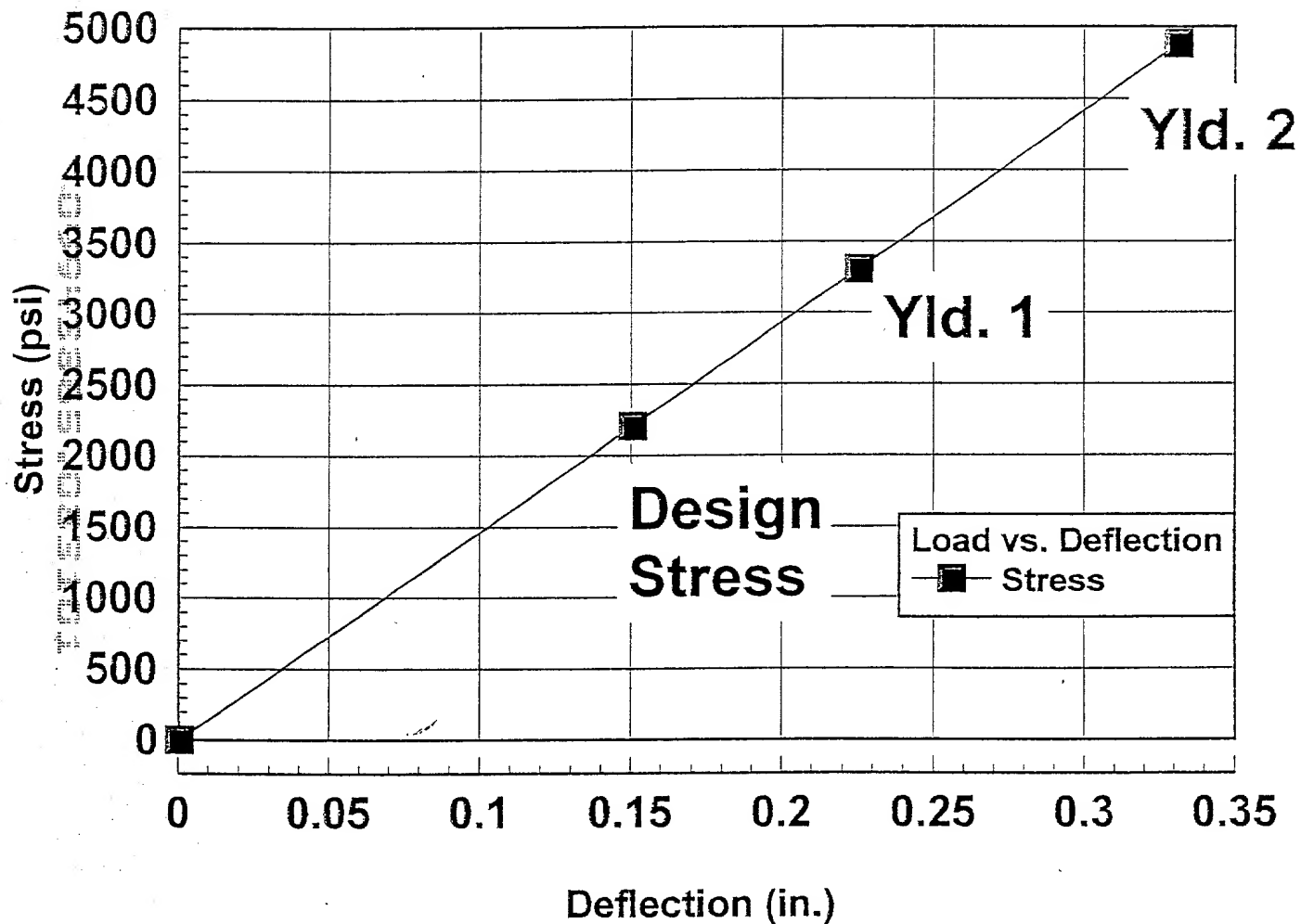
CALCULATE

OUTPUT DATA

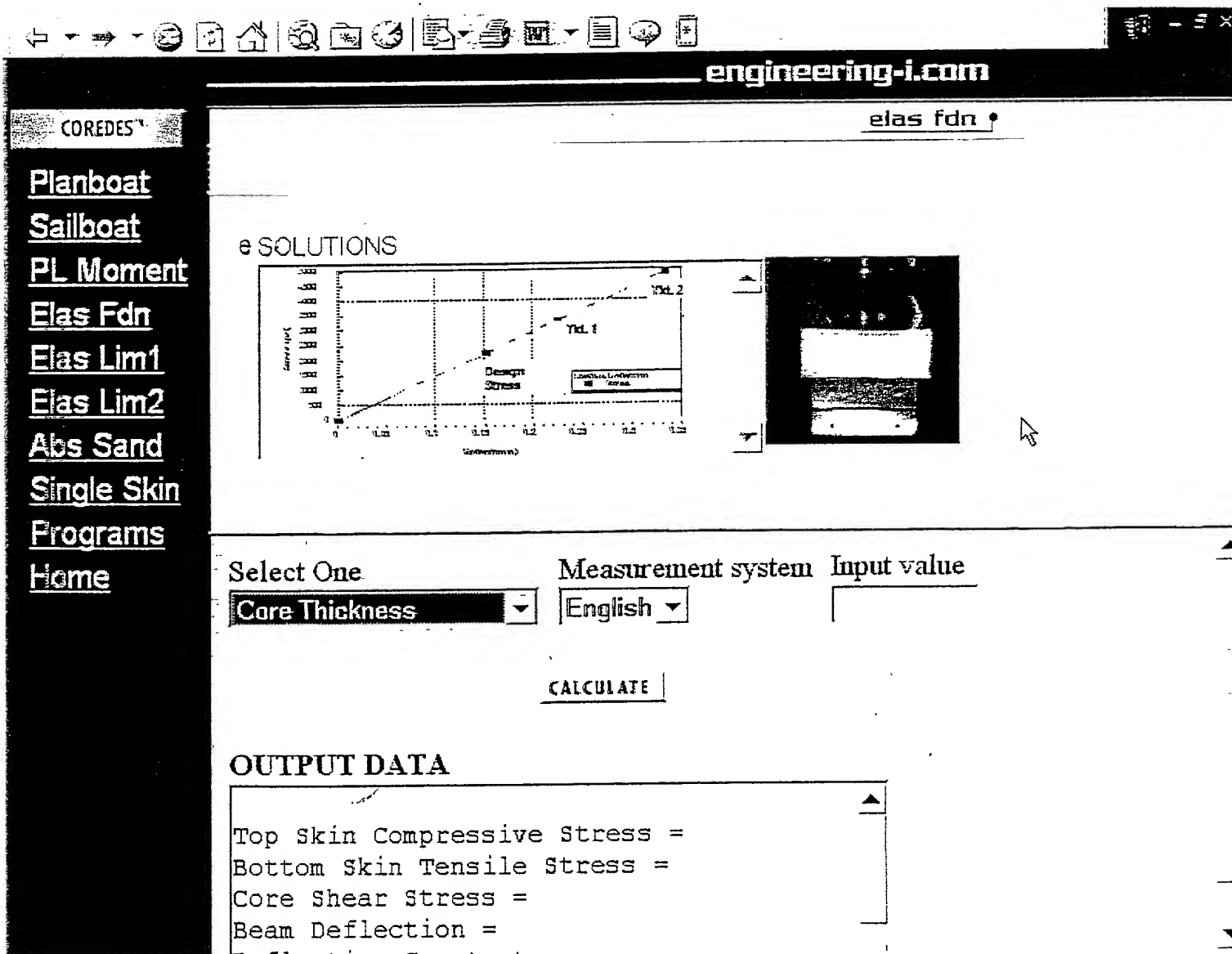
Top Skin Compressive Stress =	2203.3 psi
Bottom Skin Tensile Stress =	0.269 psi
Core Shear Stress =	24.4 psi
Beam Deflection =	0.150 "



Graph Load vs. Deflection Elastic Curve for the Designed Materials



Note: Yield 1 is the primary stress limit, Yield 2 is the limit of the design regime. The Design stress has a Factor of Safety of 2.22 on stress at Yield 2.



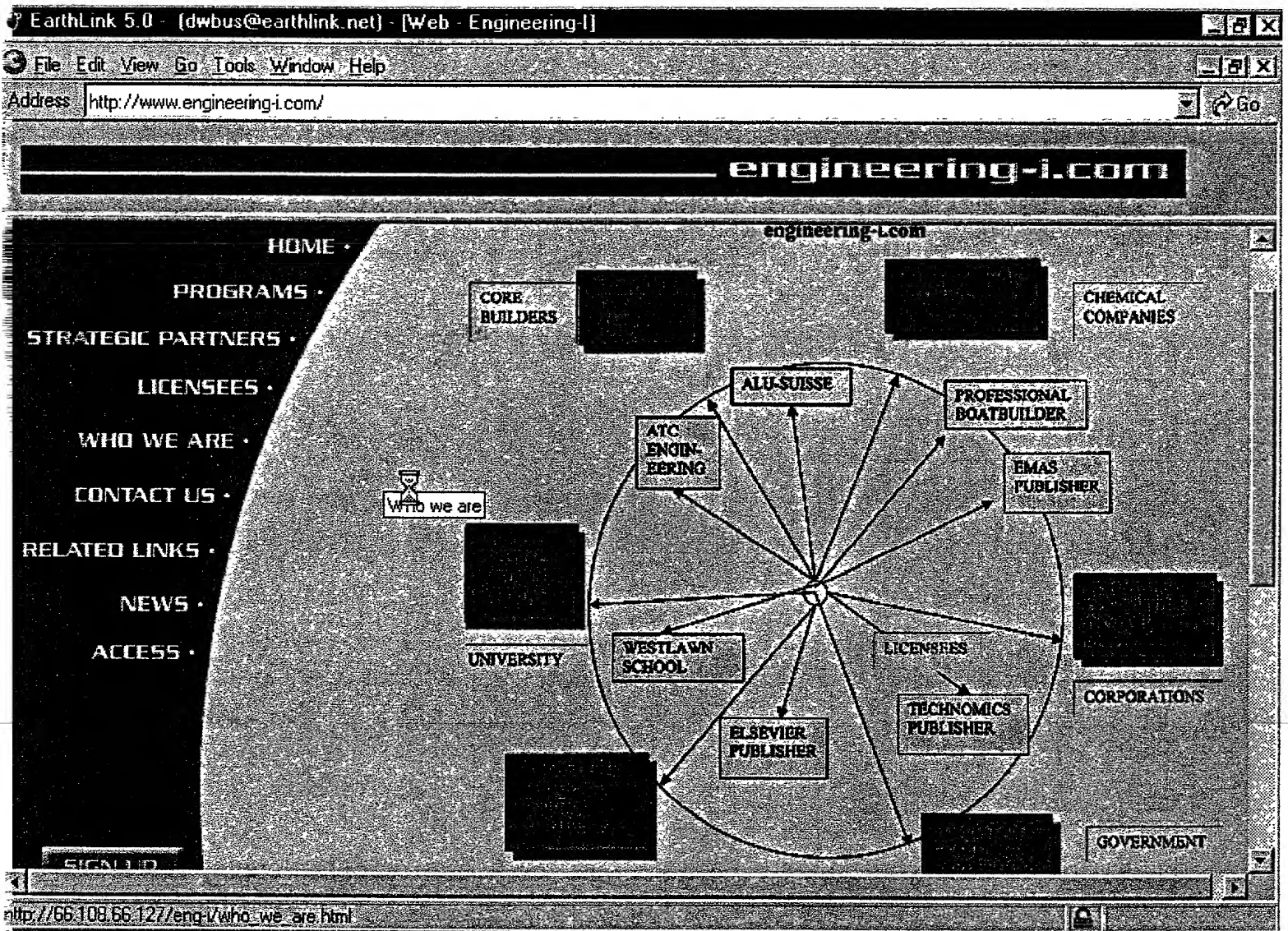


FIG. 14

